INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000124

A	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. ⁷ :	Int. Cl. 7: F01B 5/00, 13/04; F02B 75/26					
According to I	International Patent Classification (IPC) or	to both n	ational classification and IPC			
В.	FIELDS SEARCHED			·		
See below ur	mentation searched (classification system follow nder "Electronic database consulted"					
AU: IPC F01	IB 5/00, 13/-, F02B 75/26		at that such documents are included in the fields search	led		
Electronic data DWPI: F01E	base consulted during the international search (8 5/-, 9/-, 13/-; F02B 57/-, 75/26, 75/32	(name of d with key	ata base and, where practicable, search terms used) ywords; gear, pinion and crank			
C.	DOCUMENTS CONSIDERED TO BE RELE	VANT				
Category*	Citation of document, with indication, w	here appr	opriate, of the relevant passages	Relevant to claim No.		
X Y	AU 200020827B2 (728019) (HUAN Figures 1,2 and accompanying descriptions 1,2 and accompanying 1,2	ription	eptember 2000	1-10, 16,17 11-15, 18		
Y	DE 3023363A1 (SCHULTZ) 7 January 1982 The whole document 11-15, 18					
x	US 5967102A (HUANG) 19 October 1999 Figures 1-5, 9, 10 and accompanying description					
EP 0964136A1 (HUANG) 15 December 1999 X Figures 1-5, 9, 10 and accompanying description			1-10, 16, 17			
X	Further documents are listed in the con	tinuation	of Box C X See patent family ann	ex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the "X" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention						
"L" docume or whice another	international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"O" docume	"O" document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family					
but later than the priority date claimed						
Date of the actual completion of the international search 2 April 2004 Date of mailing of the international search report 1 3 APR 2						
	iling address of the ISA/AU	Authorized officer	•			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au			ASANKA PERERA Telephone No. (02) 6283 2373			
Facsimile No. (02) 6285 3929 Telephone No : (02) 6283 2373						

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000124

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	US 2990820A (SAIJO) 4 July 1961 Figure 1 and accompanying description	1-10, 16, 17		
x	US 4741300A (BENSON) 3 May 1988 Figures 1, 7 and accompanying description	1-10, 16, 17		
x	CH 376317A (RYSER) 15 May 1964 The whole document	1-10, 16, 17		



International application No.

PCT/AU2004/000124

Вох №. П	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.:			
	because they relate to subject matter not required to be searched by this Authority, namely:			
	·			
2.	Claims Nos.:			
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
	an extent that no meaningful international search can be carried out, specifically.			
ı				
•				
3.	Claims Nos.:			
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)			
Box No. II	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
	national Searching Authority found multiple inventions in this international application, as follows:			
See Su	applemental Box			
	As all required additional search fees were timely paid by the applicant, this international search report covers all			
1.	searchable claims.			
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite			
	payment of any additional fee.			
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report			
	covers only those claims for which fees were paid, specifically claims Nos.:			
]				
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is			
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark o	on Protest The additional search fees were accompanied by the applicant's protest.			
<u> </u>	No protest accompanied the payment of additional search fees.			



International application No.

PCT/AU2004/000124

Sup	plem	ental	Box
-----	------	-------	-----

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-10, 16 and 17 are directed to an engine. It is considered that a cylinder block provided with reciprocating pistons and rotating relative to a fixed portion comprises a first "special technical feature".
- 2. Claims 11-15 and 18 are directed to a method of effecting a cycle of an engine. It is considered that a working fluid in a cylinder bore expands and rotating the cylinder block by means of a pinion gear connected to a crank shaft and a ring gear connected to a fixed portion comprises a second "special technical feature".

These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is a rotating cylinder block. However this concept is not novel in the light of AU 200020827B2. Therefore these claims lack unity a posteriori.



International application No.

PCT/AU2004/000124

Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	Patent Document Cited in Search Report			Patent Family Member	
AU	2082700	AU	728019		
DE	3023363	NONE			
US	5967102 .	NONE		•	•
EP	0964136	NONE			
US	2990820	NONE			
US	4741300	NONE			
CH	376317	NONE			
					END OF ANNEX